IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Case No. 95,1408-JJJ)

In the Application of:

Mian et al.

Serial No.: 09/989,582

Filing Date: November 20, 2001

For: Devices and Methods for Using Centripetal Acceleration to Drive Fluid Movement in a Microfluidics

Examiner:

Group Art Unit: 1641

TRANSMITTAL LETTER

Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

In regard to the above identified application,

1. We are transmitting herewith the attached:
   a) Information Disclosure Statement;
   b) PTO Form 1449 and cited references;
   c) Return postcard

2. With respect to fees:
   a) No fees are required
   b) Please charge any underpayment or credit any overpayment our Deposit Account, No. 13-2490. A duplicate copy of this letter is enclosed.

3. CERTIFICATE OF MAILING UNDER 37 CFR § 1.8: The undersigned hereby certifies that this Transmittal Letter and the paper, as described in paragraph 1, are being deposited with the United States Postal Service with sufficient postage as Express Mail in an envelope addressed to the Commissioner for Patents, Washington, D.C. 20231 on April 23, 2002.

Respectfully submitted,

Date: 23 April 2002

Kevin E. Noonan, Ph.D.
Registration No. 35,303

McDonnell Boehnen Hulbert & Berghoff
300 South Wacker Drive
Chicago, IL 60606
(312)913-0001

COPY

PATENT

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Movement in a Microfluidics)

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Group Art Unit: 1641

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Pursuant to 37 C.F.R. Section 1.97 - 1.99, the Applicant wishes to make the following references of record in the above-identified application. This Information Disclosure Statement is in compliance with the continuing duty of candor as set forth in 37 C.F.R. Section 1.56. Copies of the references cited below are enclosed. These references are also listed on the enclosed PTO Form 1449.

In the judgment of the undersigned, portions of the listed references may be material to the Examiner's consideration of the presently pending claims. This statement is not a representation that the listed references have effective dates early enough to be "prior art" within the meaning of 35 U.S.C. Section 102 or Section 103.

Applicants do not believe any fee is due with this submission. If this belief be in error and the Patent Office determines that the fee prescribed in the relevant portion of 37 C.F.R. Section 1.97 is applicable, the undersigned attorney by his signature hereby authorizes any such fee to be debited from

Deposit Account 13-2490.

If any of the references are incomplete the Examiner is cordially invited to contact the undersigned by telephone (312) 913-0001.

US Patent Documents

1. Salatiello et al., U.S. Patent No. 4,729,862, issued July 21, 1981
2. Ekins, U.S. Patent No. 4,381,291, issued April 26, 1983
3. Klose et al., U.S. Patent No. 4,515,889, issued May 7, 1985
4. Edelmann et al., U.S. Patent No. 4,676,952, issued June 30, 1987
5. Ekins, U.S. Patent No. 4,745,072, issued May 17, 1988
6. Kopf-Sill et al., U.S. Patent No. 5,160,702, issued November 3, 1992
7. Ekins, U.S. Patent No. 5,171,695. issued December 15, 1992
8. Burtis et al., U.S. Patent No. 5,173,262, issued December 22, 1992
9. Burtis et al., U.S. Patent No. 5,242,803, issued September 7, 1993
10. Burd, U.S. Patent No. 5,409,665, issued April 25, 1995
11. Buhl et al., U.S. Patent No. 5,413,732, issued May 9, 1995
12. Tabata et al., U.S. Patent No. 5,432,009, issued July 11, 1995
13. Schembri, U.S. Patent No. 5,472,603, issued December 5, 1995
14. White, U.S. Patent No. 5,006,749, issued April 9, 1991
15. Kroy et al., U.S. Patent No. 5,252,294, issued October 12, 1993
16 Wilding et al., U.S. Patent No. 5,304,487, issued April 19, 1994
17 Madou et al., U.S. Patent No. 5,368,704, issued November 29, 1994
18 Negersmith et al., U.S. Patent No. 3,679,367, issued July 25, 1972
19 Kazlauskas et al., U.S. Patent No. 4,940,527, issued July 10, 1990

20 Klose et al., U.S. Patent No. 4,515,889, issued May 7, 1985

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23 Burd et al., U.S. Patent No. 5,186,844, issued February 16, 1993

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25 Burd et al., U.S. Patent No. 5,304,348, issued April 19, 1994

26 Burd et al., U.S. Patent No. 5,457,053, issued October 10, 1995

27 Bernstein et al., U.S. Patent No. 5,478,750, issued December 26, 1995

28 Schembri et al., U.S Patent No. 5,591,643, issued January 7, 1997

29 Burd et al., U.S. Patent No. 5,518,930, issued May 21, 1996

30 Schembri et al., U.S. Patent No. 5,472,603, issued December 5, 1995

31 Schembri, U.S. Patent No. 5,693,233, issued December 2, 1997

32 Kelton et al., U.S. Patent No. 5,496,520, issued March 5, 1996

33 Burd, U.S. Patent No. 5,061,381, issued October 29, 1991

34 Braynin et al., U.S. Patent No. 5,242,606, issued September 7, 1993

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38 Buhl et al., U.S. Patent No. 5,624,567, issued April 29, 1997

39 Schembri, U.S. Patent No. 5,599,411, issued February 4, 1997

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45 European Patent No. 616,218, published September 21, 1994

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Respectfully submitted,
McDonnell Boehnen Hulbert & Berghoff

Date: 23 April 2002

Kevin E. Noonan, Ph.D.
Reg. No. 35,303

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 6

Complete if Known	
Application No.	09/989,582
Filing Date:	November 20, 2001
First Named Inventor	Mian et al.
Group Art Unit	1641
Examiner Name	
Attorney Docket No.	95,1408-JJJ

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	U.S. Patent Document Number	Kind Code[2] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Figures Appear
		4,729,862		Salatiello et al.	July 21, 1981	
		4,381,291		Ekins et al.	April 26, 1983	
		4,515,889		Klose et al.	May 7, 1985	
		4,676,952		Edelmann et al.	June 30, 1997	
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		5,409,665		Burd	April 25, 1995	
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		5,432,009		Tabata	July 11, 1995	
		5,472,603		Schembri	December 5, 1995	
		5,006,749		White	April 9, 1991	
		5,252,294		Kroy	October 12, 1993	
		5,304,487		Wilding	April 19, 1994	
		5,368,704		Madou	November 29, 1994	
		3,679,367		Negersmith	July 25, 1972	
		4,940,527		Kazlauskas et al.	July 10, 1990	
		4,515,889		Klose et al.	May 7, 1985	
		5,426,032		Phillips et al.	June 20, 1995	
		4,154,793		Guigan	May 15, 1979	

Examiner Signature		Date Considered	

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[1] Unique citation designation number. [2] See attached Kinds of U.S. Patent Documents. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English translation is attached.

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		5,186,844		Burd	February 16, 1993	
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		5,591,643		Schembri et al.	January 7, 1997	
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		5,173,193		Schembri	December 22, 1992	
		5,275,016		Chatterjee et al.	January 4, 1994	
		5,624,597		Buhl et al.	April 29, 1997	
		5,599,411		Schembri	February 4, 1997	
		5,639,428		Cottingham	June 17, 1997	
		6,319,469		Mian et al.	November 20, 2001	

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		WO	93/22053		Trustees of the University of PENN	11/11/93		
		WO	93/22058		Trustees of the University of PENN	11/11/93		
		EP	417,305	A1	Idemitsu Petrochemical Co. Ltd.	3/20/91		
		EP	616,218	A1	Hitachi, Ltd.	9/21/94		
		EP	305,210		Biotrack, Inc.	12/8/93		
		EP	322,657		Miles Inc.	7/5/89		
		GER	4,410,224		Gleich Anmelder	9/28/95		
		EP	637,367	B1	ABAXIS, Inc.	12/10/97		
		WO	95/33986		ABAXIS, Inc.	12/14/95		

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
		Anderson, "Analytical Techniques for Cell Fractions" (1968), *Anal. Biochem.*, 28: 545-562	
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		Arquint et al., "Micromachined Analyzers on a Silicon Chip", (September 1994), Clinical Chemistry, Vol. 40, No. 9, pp. 1805-1809.	

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		Ballantine et al., "Surface Acoustic Wave", (June 1989), Anal. Chem., 61/11: pp. 704-715.	
		Bertrand et al., "A One-Step Determiniation of Serum 5'-nucleotidase using a centrifulgal Analyzer", (1982), Clinica Chimica Acta, 119: 275-284.	
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		Fritsche et al., "Enzymatic Endpoint Analysis of Glucose with the Hexokinase Method and the Union Carbide Fast Centrifugal Analyzer", (1975), Clin Biochem., 8: 240-246.	
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		Renoe et al., "A Versatile Minidisc Module for a Centrifugal Analyzer"(1974), Clain. Chem., 20/8:955-960.	
		Rosenzweig et al., "Laser-Based Particle-Counting Microimmunoassay for the Analysis of Single Human Erythorcytes" (1994), Anal. Chem., 66: 1771-1776	
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		Shoji & Esashi, "Micro flow cell for blood gas analysis realizing very small sample volume" (1992), Sensors and Actuators, B8: 205-208.	
		Wilding et al., "Manipulation and Flow of Biological Fluids in Straight Channels Micromachined in Silicon" (1994), Automat. Analyt. Tech., 40: 43-47.	
		Wilding et al., Manipulation and Flow of Biological Fluids in Straight Channels Micromachined in Silicon (1994), Clin. Chem., 40/1: 43-47.	

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